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(54) Title: PHOSPHORUS-CONTAINING CATALYST COMPOSITION AND HYDROFORMYLATION PROCESS USING  
THE SAME

(57) Abstract: Provided are a catalyst composition comprising a bidentate ligand, a monodentate ligand, and a transition metal cata-  
lyst and a process of hydroformylation of olefins, comprising reacting the olefin compound with gas mixture of hydrogen and carbon  
monoxide with stirring at an elevated pressure and temperature in the presence of the catalyst composition to produce aldehyde. The  
present catalytic compositions show high catalytic activity, high normal-to-iso aldehyde selectivity, and high stability.

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